

METHOD AND APPARATUS FOR RESTORING A SOFT DECISION COMPONENT OF A SIGNAL

ABSTRACT

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A method includes the steps of receiving (402), by a first receiver (102), a first received signal comprising a first signal (110) and a second signal (120), and receiving (402), by a second receiver (104), a second received signal comprising the first signal (110) and the second signal (120). A branch weight associated with the first receiver (102) and at least one other branch weight associated with the second receiver (104) are determined (406). The branch weight associated with the first receiver (102), the at least one other branch weight associated with the second receiver (102), the first received signal, and the second received signal are combined, forming a combined signal. Channel state information is determined for the combined signal, and the channel state information of the combined signal is restored (412).

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